

Serial No. Unknown (Parent Serial No. 09/407,818)

Filed: Herewith (Parent: September 28, 1999)

Title: PRIMERS FOR USE IN DETECTING BETA-LACTAMASES

In the Claims

Please cancel claims 3, 6, 12-16, 22, 23, 28, 29, and 39-48, without prejudice. Please amend claims 1, 2, 4, 5, 7-11, 19, 21, 25, 27, 31, 33, 35, 36, 38, 49, 50. The amended claims are provided below in clean form. Per 37 C.F.R. §1.121, the amended claims are also shown in Appendix A with notations to indicate changes made.

1. (Once Amended) A primer selected from the group of:

5' - CTT GGT CTG ACA GTT ACC - 3' (SEQ ID NO:3);

5' - TGT CGC CCT TAT TCC - 3' (SEQ ID NO:4);

5' - TCG GGG AAA TGT GCG - 3' (SEQ ID NO:5); and complements thereof.

2. (Once Amended) A primer selected from the group of:

5' - ATC GTC CAC CAT CCA CTG CA - 3' (SEQ ID NO:6);

5' - GGG AAA CGG AAC TGA ATG AG - 3' (SEQ ID NO:7);

5' - TAG TGG ATC TTT CGC TCC AG - 3' (SEQ ID NO:8);

5' - GCT CTG CTT TGT TAT TC - 3' (SEQ ID NO:9);

5' - CAC TCA AGG ATG TAT TGT G - 3' (SEQ ID NO:10); and complements thereof.

4. (Once Amended) A primer selected from the group of:

5' - CTG GCA ACC ACA ATG GAC TCC G - 3' (SEQ ID NO:18);

5' - GCC AGT TCA GCA TCT CCC AGC C - 3' (SEQ ID NO:19); and complements thereof.

5. (Once Amended) A primer selected from the group of:

5' - CGT GAC CAA CAA CGC CCA GC - 3' (SEQ ID NO:20);

5' - CCA GAT AGC GAA TCA GAT CGC - 3' (SEQ ID NO:21); and complements thereof.

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7. (Once Amended) A primer selected from the group of:

5' - GGC ATT GGG ATA GTT GCG GTT G - 3' (SEQ ID NO:24);

5' - TTA CTA CAA GGT CGG CGA CAT GAC C - 3' (SEQ ID NO:25); and

complements thereof.

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8. (Once Amended) A primer selected from the group of:

5' - GGA TCA CAC TAT TAC ATC ATC TCG C - 3' (SEQ ID NO:26);

5' - CGT ATG GTT GAG TTT GAG TGG C - 3' (SEQ ID NO:27); and complements thereof.

9. (Once Amended) A primer selected from the group of:

5' - GCG ACC TGG TTA ACT ACA ATC CC - 3' (SEQ ID NO:28);

5' - CGG TAG TAT TGC CC TTA AGC C - 3' (SEQ ID NO:29); and complements thereof.

10. (Once Amended) A primer selected from the group of:

5' - CGG AAA AGC ACG TCG ATG GG - 3' (SEQ ID NO:30);

5' - GCG ATA TCG TTG GTG GTG CC - 3' (SEQ ID NO:31); and complements thereof.

11. (Once Amended) A primer selected from the group of:

5' - CTC GAT GAT GCG TGC TTC GC - 3' (SEQ ID NO:32);

5' - GCG ACT GTG ATG TAT AAA CG - 3' (SEQ ID NO:33); and complements thereof.

19. (Once Amended) The method of claim 18 wherein the primers are selected from the group of:

5' - CTT GGT CTG ACA GTP ACC - 3' (SEQ ID NO:3);

5' - TGT CGC CCT TAT TCC - 3' (SEQ ID NO:4);

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cont*

~~5' - TCG GGG AAA TGT GCG - 3'~~ (SEQ ID NO:5); and complements thereof.

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21. (Once Amended) The method of claim 20 wherein the primers are selected from the group of:

~~5' - ATC GTC CAC CAT CCA CTG CA - 3'~~ (SEQ ID NO:6);

~~5' - GGG AAA CGG AAC TGA ATG AG - 3'~~ (SEQ ID NO:7);

~~5' - TAG TGG ATC TTT CGC TCC AG - 3'~~ (SEQ ID NO:8);

~~5' - GCT CTG CTT TGT TAT TC - 3'~~ (SEQ ID NO:9);

~~5' - CAC TCA AGG ATG TAT TGT G - 3'~~ (SEQ ID NO:10); and complements thereof.

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25. (Once Amended) The method of claim 24 wherein the primers are selected from the group of:

~~5' - CTG GCA ACC ACA ATG GAC TCC.G - 3'~~ (SEQ ID NO:18);

~~5' - GCC AGT TCA GCA TCT CCC AGC C - 3'~~ (SEQ ID NO:19); and complements thereof.

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27. (Once Amended) The method of claim 26 wherein the primers are selected from the group of:

~~5' - CGT GAC CAA CAA CGC CCA GC - 3'~~ (SEQ ID NO:20);

~~5' - CCA GAT AGC GAA TCA GAT CGC - 3'~~ (SEQ ID NO:21); and complements thereof.

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31. (Once Amended) The method of claim 30 wherein the primers are selected from the group of:

~~5' - GGC ATT GGG ATA GTT GCG GTTG - 3'~~ (SEQ ID NO:24);

~~5' - TTA CTA CAA GGT CGG CGA CAT GAC C - 3'~~ (SEQ ID NO:25); and complements thereof.

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A10
33. (Once Amended) The method of claim 32 wherein the primers are selected from the group of:

5' - GGA TCA CAC TAT TAC ATC TCG C - 3' (SEQ ID NO:26);

5' - CGT ATG GTT GAG TTT GAG TGG C - 3' (SEQ ID NO:27); and complements thereof.

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35. (Once Amended) The method of claim 34 wherein the primers are selected from the group of:

5' - GCG ACC TGG TTA ACT ACA ATC CC - 3' (SEQ ID NO:28);

5' - CGG TAG TAT TGC CC TTA AGC C - 3' (SEQ ID NO:29); and complements thereof.

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36. (Once Amended) The method of claim 34 wherein the primers are selected from the group of:

5' - CGG AAA AGC ACG TCG ATG GG - 3' (SEQ ID NO:30);

5' - GCG ATA TCG TTG GTG GTG CC - 3' (SEQ ID NO:31); and complements thereof.

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38. (Once Amended) The method of claim 37 wherein the primers are selected from the group of:

5' - CTC GAT GAT GCG TGC TTC GC - 3' (SEQ ID NO:32);

5' - GCG ACT GTG ATG TAT AAA CG - 3' (SEQ ID NO:33); and complements thereof.

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49. (Once Amended) A diagnostic kit for detecting a TEM family beta-lactamase which comprises packaging, containing, separately packaged:

(a) at least one primer pair capable of hybridizing to beta-lactamase nucleic acid of interest wherein at least one of the primers is selected from the primers of claim 1;

(b) a positive and negative control; and